

# Safety Data Sheet

According to Regulation (EC) No 1907/2006

# Persil Professional Biological Liquid

**Revision:** 2024-08-08 **Version:** 16.3

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name: Persil Professional Biological Liquid

Persil is a registered trade mark and is used under licence of Unilever

UFI: CFM5-803P-Y00H-U2JV

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Product use: Laundry detergent.

Uses advised against: Uses other than those identified are not recommended.

# **SWED - Sector-specific worker exposure description :** AISE\_SWED\_PW\_8a\_1

AISE\_SWED\_PW\_8a\_1
PC35-Washing and cleaning products
AISE\_SWED\_PW\_1\_1
AISE\_SWED\_PW\_4\_1
AISE\_SWED\_PW\_19\_1

PC35-Washing and cleaning products

#### 1.3 Details of the supplier of the safety data sheet

Diversey Europe Operations BV, De Corridor 4, 3621ZB Breukelen [Maarssenbroeksedijk 2, 3542DN Utrecht], The Netherlands

#### **Contact details**

Diversey Ltd Weston Favell Centre, Northampton NN3 8PD, United Kingdom Tel: 01604 405311, Fax: 01604 406809 Regulatory Email: customerservice.uk@solenis.com

#### 1.4 Emergency telephone number

Seek medical advice (show the label or safety data sheet where possible) For medical or environmental emergency only: call 0800 052 0185

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Eye irritation, Category 2 (H319) Skin sensitisation, Category 1 (H317) Chronic aquatic toxicity, Category 3 (H412)

### 2.2 Label elements



Signal word: Warning.

Contains 2-methyl-2H-isothiazol-3-one (Methylisothiazolinone), 3(2H)-Isothiazolone, 2-octyl- (Octylisothiazolinone)

#### Hazard statements:

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H412 - Harmful to aquatic life with long lasting effects.

#### **Precautionary statements:**

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P280 - Wear protective gloves.

P501 - Dispose of unused content as chemical waste.

#### Further indications on the label:

Contains: preservative.

#### 2.3 Other hazards

No other hazards known.

# **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

Ingredient(s)	EC number	CAS number	REACH number	Classification	Notes	Weight percent
C12-14 alcohols, ethoxylated (7EO)	[4]	68439-50-9	[4]	Acute toxicity - Oral, Category 4 (H302) Serious eye damage, Category 1 (H318) Chronic aquatic toxicity, Category 3 (H412)		3-10
sodium alkylbenzenesulphonate	270-115-0	68411-30-3	01-211948942 8-22	Acute toxicity - Oral, Category 4 (H302) Skin irritation, Category 2 (H315) Serious eye damage, Category 1 (H318) Chronic aquatic toxicity, Category 3 (H412)		1-3
Alcohols C12-14, ethoxylated (3EO), sulphated, sodium salts	[4]	68891-38-3	[4]	Skin irritation, Category 2 (H315) Serious eye damage, Category 1 (H318)		1-3
Triethanolamine dodecylbenzenesulfonate	248-406-9	27323-41-7	-	Acute toxicity - Oral, Category 3 (H301) Skin irritation, Category 2 (H315) Eye irritation, Category 2 (H319)		1-3
methanol	200-659-6	67-56-1	-	Flammable liquids, Category 2 (H225) Acute toxicity - Oral, Category 3 (H301) Acute toxicity - Dermal, Category 3 (H311) Acute toxicity - Inhalation, Category 3 (H331) Specific target organ toxicity - Single exposure, Category 1 (H370)		0.1-1
3(2H)-Isothiazolone, 2-octyl-	247-761-7	26530-20-1	-	Acute toxicity - Inhalation, Category 2 (H330) Acute toxicity - Oral, Category 3 (H301) Acute toxicity - Dermal, Category 3 (H311) Skin corrosion, Category 1B (H314) Serious eye damage, Category 1 (H318) Skin sensitisation, Sub-category 1A (H317) Acute aquatic toxicity, Category 1 M=100 (H400) Chronic aquatic toxicity, Category 1 M=100 (H410)		0.01-0.1
2-methyl-2H-isothiazol-3-one	220-239-6	2682-20-4	[6]	Acute toxicity - Inhalation, Category 2 (H330) Acute toxicity - Oral, Category 3 (H301) Acute toxicity - Dermal, Category 3 (H311) Skin corrosion, Category 1B (H314) EUH071 Serious eye damage, Category 1 (H318) Skin sensitisation, Sub-category 1A (H317) Acute aquatic toxicity, Category 1 M=10 (H400) Chronic aquatic toxicity, Category 1 M=1 (H410)		0.01-0.1

#### Specific concentration limits

Alcohols C12-14, ethoxylated (3EO), sulphated, sodium salts:

- Serious eye damage, Category 1 (H318) >= 10% > Eye irritation, Category 2 (H319) >= 5% 3(2H)-Isothiazolone, 2-octyl-:
- Skin sensitisation, Category 1 (H317) >= 0.0015%

2-methyl-2H-isothiazol-3-one:

• Skin sensitisation, Category 1 (H317) >= 0.0015%

Workplace exposure limit(s), if available, are listed in subsection 8.1.

ATE, if available, are listed in section 11.

[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.
 [6] Exempted: biocidal active. See Article 15(2) of Regulation (EC) No 1907/2006.
 For the full text of the H and EUH phrases mentioned in this Section, see Section 16...

#### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

**General Information:** Symptoms of intoxication may even occur after several hours. It is recommended to continue

medical observation for at least 48 hours after the incident.

Inhalation: Get medical attention or advice if you feel unwell.

Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice Skin contact:

Eye contact: Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. If irritation occurs and persists, get

medical attention.

Ingestion: Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious

person. Get medical attention or advice if you feel unwell.

**Self-protection of first aider:** Consider personal protective equipment as indicated in subsection 8.2.

4.2 Most important symptoms and effects, both acute and delayed

**Inhalation:** No known effects or symptoms in normal use.

**Skin contact:** May cause an allergic skin reaction.

Eye contact: Causes severe irritation.

**Ingestion:** No known effects or symptoms in normal use.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

#### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

#### 5.2 Special hazards arising from the substance or mixture

No special hazards known.

#### 5.3 Advice for firefighters

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

#### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Wear suitable gloves.

#### 6.2 Environmental precautions

Dilute with plenty of water. Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. Inform responsible authorities in case undiluted product reaches drainage system, surface or ground water or the ground/soil.

#### 6.3 Methods and material for containment and cleaning up

Dyke to collect large liquid spills. Absorb with liquid-binding material (sand, diatomite, universal binders). Do not place spilled materials back into the original container. Collect in closed and suitable containers for disposal.

#### 6.4 Reference to other sections

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

#### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

#### Measures to prevent fire and explosions:

No special precautions required.

#### Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

#### Advices on general occupational hygiene:

Follow general hygiene considerations recognised as common good workplace practices. Keep away from food, drink and animal feeding stuffs. Keep out of reach of children. Do not mix with other products unless adviced by Diversey. Wash face, hands and any exposed skin thoroughly after handling. Take off contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Avoid contact with skin and eyes. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging. Keep out of reach of children.

For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

#### 7.3 Specific end use(s)

No specific advice for end use available.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Workplace exposure limits

Air limit values, if available:

		1117 01
Ingredient(s)	UK - Long term	UK - Short term
ingredicit(3)	OK - Long term	OK - OHOLL LEITH

	value(s)	value(s)
methanol	200 ppm	250 ppm
	266 mg/m <sup>3</sup>	333 mg/m <sup>3</sup>

Biological limit values, if available:

Recommended monitoring procedures, if available:

Additional exposure limits under the conditions of use, if available:

#### **DNEL/DMEL and PNEC values**

Human exposure
DNEL/DMEL oral exposure - Consumer (mg/kg bw)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
C12-14 alcohols, ethoxylated (7EO)	No data available	No data available	No data available	No data available
sodium alkylbenzenesulphonate	-	-	-	0.425
Alcohols C12-14, ethoxylated (3EO), sulphated, sodium salts	No data available	No data available	No data available	No data available
Triethanolamine dodecylbenzenesulfonate	No data available	No data available	No data available	No data available
methanol	-	8	-	4
3(2H)-Isothiazolone, 2-octyl-	No data available	No data available	No data available	No data available
2-methyl-2H-isothiazol-3-one	-	-	-	0.027

DNEL/DMEL dermal exposure - Worker

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
C12-14 alcohols, ethoxylated (7EO)	No data available	No data available	No data available	No data available
sodium alkylbenzenesulphonate	-	-	-	119
Alcohols C12-14, ethoxylated (3EO), sulphated, sodium salts	No data available	No data available	No data available	No data available
Triethanolamine dodecylbenzenesulfonate	No data available	No data available	No data available	No data available
methanol	No data available	40	No data available	40
3(2H)-Isothiazolone, 2-octyl-	No data available	No data available	No data available	No data available
2-methyl-2H-isothiazol-3-one	-	-	-	-

DNEL/DMEL dermal exposure - Consumer

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
C12-14 alcohols, ethoxylated (7EO)	No data available	No data available	No data available	No data available
sodium alkylbenzenesulphonate	-	-	-	42.5
Alcohols C12-14, ethoxylated (3EO), sulphated, sodium salts	No data available	No data available	No data available	No data available
Triethanolamine dodecylbenzenesulfonate	No data available	No data available	No data available	No data available
methanol	No data available	8	No data available	8
3(2H)-Isothiazolone, 2-octyl-	No data available	No data available	No data available	No data available
2-methyl-2H-isothiazol-3-one	-	-	-	-

DNEL/DMEL inhalatory exposure - Worker (mg/m³)

DNEL/DIVIEL IIIIIaiatory exposure - Worker (Ing/III-)				
Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
C12-14 alcohols, ethoxylated (7EO)	No data available	No data available	No data available	No data available
sodium alkylbenzenesulphonate	-	-	-	6
Alcohols C12-14, ethoxylated (3EO), sulphated, sodium salts	No data available	No data available	No data available	No data available
Triethanolamine dodecylbenzenesulfonate	No data available	No data available	No data available	No data available
methanol	260	260	260	260
3(2H)-Isothiazolone, 2-octyl-	No data available	No data available	No data available	No data available
2-methyl-2H-isothiazol-3-one	-	-	-	-

DNEL/DMEL inhalatory exposure - Consumer (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
C12-14 alcohols, ethoxylated (7EO)	No data available	No data available	No data available	No data available
sodium alkylbenzenesulphonate	-	-	-	1.5
Alcohols C12-14, ethoxylated (3EO), sulphated, sodium salts	No data available	No data available	No data available	No data available
Triethanolamine dodecylbenzenesulfonate	No data available	No data available	No data available	No data available
methanol	50	50	50	50
3(2H)-Isothiazolone, 2-octyl-	No data available	No data available	No data available	No data available
2-methyl-2H-isothiazol-3-one	-	-	-	-

**Environmental exposure** 

Environmental exposure - PNEC

Ingredient(s)	Surface water, fresh (mg/l)	Surface water, marine (mg/l)	Intermittent (mg/l)	Sewage treatment plant (mg/l)
040.44 sleeb sleep atheres (700)			Nia data available	
C12-14 alcohols, ethoxylated (7EO)	No data available	No data available	No data available	No data available
sodium alkylbenzenesulphonate	0.268	0.0268	0.0167	3.43
Alcohols C12-14, ethoxylated (3EO), sulphated, sodium salts	No data available	No data available	No data available	No data available
Triethanolamine dodecylbenzenesulfonate	No data available	No data available	No data available	No data available
methanol	154	15.4	1540	100
3(2H)-Isothiazolone, 2-octyl-	No data available	No data available	No data available	No data available
2-methyl-2H-isothiazol-3-one	-	-	-	-

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m³)
C12-14 alcohols, ethoxylated (7EO)	No data available	No data available	No data available	No data available
sodium alkylbenzenesulphonate	8.1	6.8	35	-
Alcohols C12-14, ethoxylated (3EO), sulphated, sodium salts	No data available	No data available	No data available	No data available
Triethanolamine dodecylbenzenesulfonate	No data available	No data available	No data available	No data available
methanol	570.4	-	23.5	-
3(2H)-Isothiazolone, 2-octyl-	No data available	No data available	No data available	No data available
2-methyl-2H-isothiazol-3-one	-	-	-	-

#### 8.2 Exposure controls

The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet. If available, please refer to the product information sheet for application and handling instructions. Normal use conditions are assumed for this section.

Recommended safety measures for handling the undiluted product:

If the product is diluted by using specific dosing systems with no risk of splashes or direct skin Appropriate engineering controls:

contact, the personal protection equipment as described in this section is not required.

Avoid direct contact and/or splashes where possible. Train personnel. Appropriate organisational controls:

REACH use scenarios considered for the undiluted product:

	SWED - Sector-specific worker exposure description	LCS	PROC	Duration (min)	ERC
PC35-Washing and cleaning products	PC35-Washing and cleaning products	С		-	ERC8a
Manual transfer and dilution	AISE_SWED_PW_8a_1	PW	PROC 8a	60	ERC8a

Personal protective equipment

Safety glasses are not normally required. However, their use is recommended in those cases where Eye / face protection:

splashes may occur when handling the product (EN 16321 / EN 166).

Hand protection: Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and

breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such

as risk of splashes, cuts, contact time and temperature.

Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: ≥ 480 min Material thickness: ≥ 0.7 mm

Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: ≥ 30 min

Material thickness: ≥ 0.4 mm

In consultation with the supplier of protective gloves a different type providing similar protection may

be chosen.

**Body protection:** No special requirements under normal use conditions. Respiratory protection: No special requirements under normal use conditions.

No special requirements under normal use conditions. **Environmental exposure controls:** 

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (% w/w): 1

Appropriate engineering controls: No special requirements under normal use conditions. Appropriate organisational controls: No special requirements under normal use conditions.

REACH use scenarios considered for the diluted product:

	SWED	LCS	PROC	Duration (min)	ERC		
PC35-Washing and cleaning products	PC35-Washing and cleaning products	С	-	-	ERC8a		

Automatic application in a dedicated closed system	AISE_SWED_PW_1_1	PW	PROC 1	480	ERC8a
Manual application	AISE_SWED_PW_19_1	PW	PROC 19	480	ERC8a
Automatic application in a dedicated system	AISE_SWED_PW_4_1	PW	PROC 4	480	ERC8a

Personal protective equipment

Eye / face protection: No special requirements under normal use conditions.

Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary. Hand protection:

**Body protection:** No special requirements under normal use conditions. No special requirements under normal use conditions. Respiratory protection:

**Environmental exposure controls:** No special requirements under normal use conditions.

#### SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Information in this section refers to the product, unless it is specifically stated that substance data is listed

Method / remark

Physical state: Liquid

Colour: Hazy , Dark , Green Blue

Odour: Product specific

Odour threshold: Not applicable

Melting point/freezing point (°C): Not determined Not relevant to classification of this product

Initial boiling point and boiling range (°C): Not determined See substance data

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
C12-14 alcohols, ethoxylated (7EO)	No data available		
sodium alkylbenzenesulphonate	No data available		
Alcohols C12-14, ethoxylated (3EO), sulphated, sodium salts	No data available		
Triethanolamine dodecylbenzenesulfonate	No data available		
methanol	No data available		
3(2H)-Isothiazolone, 2-octyl-	No data available		
2-methyl-2H-isothiazol-3-one	No data available		

Method / remark

closed cup

Flammability (solid, gas): Not applicable to liquids

Flammability (liquid): Not flammable.

Flash point (°C): > 93 °C

Sustained combustion: Not applicable. ( UN Manual of Tests and Criteria, section 32, L.2 )

Lower and upper explosion limit/flammability limit (%): Not determined

Substance data, flammability or explosive limits, if available:

Method / remark

Autoignition temperature: Not determined

**Decomposition temperature:** Not applicable.

**pH**: Not applicable **Dilution pH**: ≈ 8 (1 %)

Kinematic viscosity: Not determined

ISO 4316 ISO 4316

Solubility in / Miscibility with water: Fully miscible

DM-006 Viscosity - Standard

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
C12-14 alcohols, ethoxylated (7EO)	Soluble	Method not given	
sodium alkylbenzenesulphonate	> 250		
Alcohols C12-14, ethoxylated (3EO), sulphated, sodium salts	No data available		
Triethanolamine dodecylbenzenesulfonate	No data available		
methanol	No data available		
3(2H)-Isothiazolone, 2-octyl-	No data available		
2-methyl-2H-isothiazol-3-one	No data available		

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

Method / remark See substance data

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
C12-14 alcohols, ethoxylated (7EO)	No data available		
sodium alkylbenzenesulphonate	No data available		
Alcohols C12-14, ethoxylated (3EO), sulphated, sodium salts	No data available		
Triethanolamine dodecylbenzenesulfonate	No data available		
methanol	No data available		
3(2H)-Isothiazolone, 2-octyl-	No data available		
2-methyl-2H-isothiazol-3-one	No data available		

Method / remark

OECD 109 (EU A.3)

Not relevant to classification of this product

Not applicable to liquids.

Relative density: ≈ 1.02 (20 °C)

Relative vapour density: No data available. Particle characteristics: No data available.

9.2 Other information

9.2.1 Information with regard to physical hazard classes

**Explosive properties:** Not explosive. Vapours may form explosive mixtures with air.

Oxidising properties: Not oxidising. Corrosion to metals: Not corrosive

9.2.2 Other safety characteristics

No other relevant information available.

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

#### 10.2 Chemical stability

Stable under normal storage and use conditions.

#### 10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

#### 10.4 Conditions to avoid

None known under normal storage and use conditions.

#### 10.5 Incompatible materials

None known under normal use conditions.

#### 10.6 Hazardous decomposition products

None known under normal storage and use conditions.

# **SECTION 11: Toxicological information**

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Mixture data: .

#### Relevant calculated ATE(s):

ATE - Oral (mg/kg): >2000 ATE - Dermal (mg/kg): >2000 ATE - Inhalatory, vapours (mg/l): >20

#### Eye irritation and corrosivity

Result: Eye irritant 2 Method: Weight of evidence

Substance data, where relevant and available, are listed below:.

#### **Acute toxicity**

Acute oral toxicity										
Ingredient(s)	Endpoint	Value	Species	Method	Exposure	ATE Oral				
		(mg/kg)			time (h)	(mg/kg)				
C12-14 alcohols, ethoxylated (7EO)	LD 50	> 300 - 2000	Rat	Read across		Not established				
sodium alkylbenzenesulphonate	LD 50	1080	Rat	OECD 401 (EU B.1)		1080				

Alcohols C12-14, ethoxylated (3EO), sulphated, sodium salts	LD 50	> 2000			Not established
Triethanolamine dodecylbenzenesulfonate		No data	Rabbit		4199
		available			
methanol		No data			Not established
		available			
3(2H)-Isothiazolone, 2-octyl-		No data			125
		available			
2-methyl-2H-isothiazol-3-one	LD 50	120	Rat	OECD 401 (EU B.1)	120

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE Dermal (mg/kg)
C12-14 alcohols, ethoxylated (7EO)	LD 50	> 2000	Rabbit	Method not given		Not established
sodium alkylbenzenesulphonate	LD 50	> 2000	Rat	OECD 402 (EU B.3)		Not established
Alcohols C12-14, ethoxylated (3EO), sulphated, sodium salts		No data available				Not established
Triethanolamine dodecylbenzenesulfonate		No data available				Not established
methanol		No data available				Not established
3(2H)-Isothiazolone, 2-octyl-		No data available				311
2-methyl-2H-isothiazol-3-one	LD 50	242	Rat	OECD 402 (EU B.3)	24 hours	242

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
C12-14 alcohols, ethoxylated (7EO)		No data available			
sodium alkylbenzenesulphonate		No data available			
Alcohols C12-14, ethoxylated (3EO), sulphated, sodium salts		No data available			
Triethanolamine dodecylbenzenesulfonate		No data available			
methanol		No data available			
3(2H)-Isothiazolone, 2-octyl-		No data available			
2-methyl-2H-isothiazol-3-one	LC 50	(mist) 0.11	Rat	OECD 403 (EU B.2)	4 hours

Acute inhalative toxicity, continued

Ingredient(s)	ATE - inhalation, dust (mg/l)	ATE - inhalation, mist (mg/l)	ATE - inhalation, vapour (mg/l)	ATE - inhalation, gas (mg/l)
C12-14 alcohols, ethoxylated (7EO)	Not established	Not established	Not established	Not established
sodium alkylbenzenesulphonate	Not established	Not established	Not established	Not established
Alcohols C12-14, ethoxylated (3EO), sulphated, sodium salts	Not established	Not established	Not established	Not established
Triethanolamine dodecylbenzenesulfonate	Not established	Not established	Not established	Not established
methanol	Not established	Not established	Not established	Not established
3(2H)-Isothiazolone, 2-octyl-	Not established	Not established	Not established	Not established
2-methyl-2H-isothiazol-3-one	Not established	0.11	Not established	Not established

# Irritation and corrosivity Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
C12-14 alcohols, ethoxylated (7EO)	Not irritant		Read across	
sodium alkylbenzenesulphonate	Irritant	Rabbit	OECD 404 (EU B.4)	
Alcohols C12-14, ethoxylated (3EO), sulphated, sodium salts	Irritant			
Triethanolamine dodecylbenzenesulfonate	No data available			
methanol	No data available			
3(2H)-Isothiazolone, 2-octyl-	No data available			
2-methyl-2H-isothiazol-3-one	Corrosive			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
C12-14 alcohols, ethoxylated (7EO)	Severe damage	Rabbit	Read across	
sodium alkylbenzenesulphonate	Corrosive	Rabbit	OECD 405 (EU B.5)	
Alcohols C12-14, ethoxylated (3EO), sulphated, sodium salts	Severe damage			
Triethanolamine dodecylbenzenesulfonate	No data available			
methanol	No data available			
3(2H)-Isothiazolone, 2-octyl-	No data available			

2-methyl-2H-isothiazol-3-one	No data available		

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
C12-14 alcohols, ethoxylated (7EO)	No data available			
sodium alkylbenzenesulphonate	Not irritating to respiratory tract			
Alcohols C12-14, ethoxylated (3EO), sulphated, sodium salts	No data available			
Triethanolamine dodecylbenzenesulfonate	No data available			
methanol	No data available			
3(2H)-Isothiazolone, 2-octyl-	No data available			
2-methyl-2H-isothiazol-3-one	No data available			

Sensitisation Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
C12-14 alcohols, ethoxylated (7EO)	Not sensitising	Guinea pig	OECD 406 (EU B.6) /	
			GPMT	
sodium alkylbenzenesulphonate	Not sensitising	Guinea pig	OECD 406 (EU B.6) /	
			GPMT	
Alcohols C12-14, ethoxylated (3EO), sulphated, sodium salts	No data available			
Triethanolamine dodecylbenzenesulfonate	No data available			
methanol	No data available			
3(2H)-Isothiazolone, 2-octyl-	No data available			
2-methyl-2H-isothiazol-3-one	Sensitising	Guinea pig		

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
C12-14 alcohols, ethoxylated (7EO)	No data available			
sodium alkylbenzenesulphonate	No data available			
Alcohols C12-14, ethoxylated (3EO), sulphated, sodium salts	No data available			
Triethanolamine dodecylbenzenesulfonate	No data available			
methanol	No data available			
3(2H)-Isothiazolone, 2-octyl-	No data available			
2-methyl-2H-isothiazol-3-one	No data available			

# CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
C12-14 alcohols, ethoxylated (7EO)	No evidence for mutagenicity, negative test results	Read across	No data available	
sodium alkylbenzenesulphonate		OECD 471 (EU B.12/13) OECD 476 OECD 473	No data available	
Alcohols C12-14, ethoxylated (3EO), sulphated, sodium salts	No data available		No data available	
Triethanolamine dodecylbenzenesulfonate	No data available		No data available	
methanol	No data available		No data available	
3(2H)-Isothiazolone, 2-octyl-	No data available		No data available	
2-methyl-2H-isothiazol-3-one	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13)	No data available	

Carcinogenicity

Ingredient(s)	Effect
C12-14 alcohols, ethoxylated (7EO)	No data available
sodium alkylbenzenesulphonate	No data available
Alcohols C12-14, ethoxylated (3EO), sulphated, sodium salts	No data available
Triethanolamine dodecylbenzenesulfonate	No data available
methanol	No data available
3(2H)-Isothiazolone, 2-octyl-	No data available
2-methyl-2H-isothiazol-3-one	No data available

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
C12-14 alcohols,			No data				
ethoxylated (7EO)			available				
sodium	NOAEL	Teratogenic effects	300	Rat	Non guideline		No known significant effects or

alkylbenzenesulphonat e			test	critical hazards
Alcohols C12-14, ethoxylated (3EO), sulphated, sodium salts		No data available		
Triethanolamine dodecylbenzenesulfona te		No data available		
methanol		No data available		
3(2H)-Isothiazolone, 2-octyl-		No data available		
2-methyl-2H-isothiazol- 3-one		No data available		

Repeated dose toxicity
Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Specific effects and organs
		(mg/kg bw/d)			time (days)	affected
C12-14 alcohols, ethoxylated (7EO)		No data				
		available				
sodium alkylbenzenesulphonate		No data				
		available				
Alcohols C12-14, ethoxylated (3EO), sulphated, sodium		No data				
salts		available				
Triethanolamine dodecylbenzenesulfonate		No data				
		available				
methanol		No data				
		available				
3(2H)-Isothiazolone, 2-octyl-		No data				
		available				
2-methyl-2H-isothiazol-3-one		No data				
		available			1	1

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value	Species	Method		Specific effects and organs
		(mg/kg bw/d)			time (days)	affected
C12-14 alcohols, ethoxylated (7EO)		No data				
		available				
sodium alkylbenzenesulphonate		No data				
· · ·		available				
Alcohols C12-14, ethoxylated (3EO), sulphated, sodium		No data				
salts		available				
Triethanolamine dodecylbenzenesulfonate		No data				
		available				
methanol		No data				
		available				
3(2H)-Isothiazolone, 2-octyl-		No data				
		available				
2-methyl-2H-isothiazol-3-one		No data				
		available				1

Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
C12-14 alcohols, ethoxylated (7EO)		No data available				
sodium alkylbenzenesulphonate		No data available				
Alcohols C12-14, ethoxylated (3EO), sulphated, sodium salts		No data available				
Triethanolamine dodecylbenzenesulfonate		No data available				
methanol		No data available				
3(2H)-Isothiazolone, 2-octyl-		No data available				
2-methyl-2H-isothiazol-3-one		No data available				

Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
C12-14 alcohols, ethoxylated (7EO)			No data available					
sodium alkylbenzenesulphonat e			No data available					
Alcohols C12-14,			No data					

ethoxylated (3EO), sulphated, sodium salts		available			
Triethanolamine dodecylbenzenesulfona te		No data available			
methanol		No data available			
3(2H)-Isothiazolone, 2-octyl-		No data available			
2-methyl-2H-isothiazol- 3-one		No data available			

STOT-single exposure

Ingredient(s)	Affected organ(s)
C12-14 alcohols, ethoxylated (7EO)	No data available
sodium alkylbenzenesulphonate	Not applicable
Alcohols C12-14, ethoxylated (3EO), sulphated, sodium salts	No data available
Triethanolamine dodecylbenzenesulfonate	No data available
methanol	No data available
3(2H)-Isothiazolone, 2-octyl-	No data available
2-methyl-2H-isothiazol-3-one	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
C12-14 alcohols, ethoxylated (7EO)	No data available
sodium alkylbenzenesulphonate	Not applicable
Alcohols C12-14, ethoxylated (3EO), sulphated, sodium salts	No data available
Triethanolamine dodecylbenzenesulfonate	No data available
methanol	No data available
3(2H)-Isothiazolone, 2-octyl-	No data available
2-methyl-2H-isothiazol-3-one	No data available

#### **Aspiration hazard**

Substances with an aspiration hazard (H304), if any, are listed in section 3.

# Potential adverse health effects and symptoms

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

# 11.2 Information on other hazards

**11.2.1 Endocrine disrupting properties**Endocrine disrupting properties - Human data, if available:

#### 11.2.2 Other information

No other relevant information available.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

No data is available on the mixture .

Substance data, where relevant and available, are listed below:

#### Aquatic short-term toxicity

Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
C12-14 alcohols, ethoxylated (7EO)	LC 50	> 1 - 10	Brachydanio rerio	Read across	96
sodium alkylbenzenesulphonate	LC 50	1.67	Fish	EPA-OPPTS 850.1075	96
Alcohols C12-14, ethoxylated (3EO), sulphated, sodium salts	LC 50	7.1	Fish	OECD 203 (EU C.1)	96
Triethanolamine dodecylbenzenesulfonate		No data available			
methanol		No data available			
3(2H)-Isothiazolone, 2-octyl-	LC 50	0.122			
2-methyl-2H-isothiazol-3-one	LC 50	4.77	Oncorhynchus mykiss	Similar to OECD 203	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	
ingredient(5)	Liiupoiiit	value	Opecies	INICUIOU	Lyposuie	

		(mg/l)			time (h)
C12-14 alcohols, ethoxylated (7EO)	EC 50	> 1 - 10	Daphnia	Method not given	48
			magna Straus		
sodium alkylbenzenesulphonate	LC 50	2.9	Daphnia	OECD 202 (EU C.2)	48
Alcohols C12-14, ethoxylated (3EO), sulphated, sodium salts		No data			
		available			
Triethanolamine dodecylbenzenesulfonate		No data			
		available			
methanol		No data			
		available			
3(2H)-Isothiazolone, 2-octyl-	LC 50	0.181			
2-methyl-2H-isothiazol-3-one	LC 50	0.93-1.9	Daphnia	Method not given	48
			magna Straus		

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
C12-14 alcohols, ethoxylated (7EO)	NOEC	> 0.1 - 1	Not specified	DIN 38412, Part 9 OECD 201 (EU C.3)	
sodium alkylbenzenesulphonate	Еь С 50	47.3	Not specified	Non guideline test	72
Alcohols C12-14, ethoxylated (3EO), sulphated, sodium salts		No data available			
Triethanolamine dodecylbenzenesulfonate		No data available			
methanol		No data available			
3(2H)-Isothiazolone, 2-octyl-	EC 50	0.15			
2-methyl-2H-isothiazol-3-one	EC 50	0.158	Selenastrum capricornutum	Method not given	72

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
C12-14 alcohols, ethoxylated (7EO)		No data available			
sodium alkylbenzenesulphonate		No data available			
Alcohols C12-14, ethoxylated (3EO), sulphated, sodium salts		No data available			
Triethanolamine dodecylbenzenesulfonate		No data available			
methanol		No data available			
3(2H)-Isothiazolone, 2-octyl-		No data available			
2-methyl-2H-isothiazol-3-one		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
C12-14 alcohols, ethoxylated (7EO)		> 1000	Activated sludge	DEV-L2	
sodium alkylbenzenesulphonate	EC 50	550	Bacteria	OECD 209	3 hour(s)
Alcohols C12-14, ethoxylated (3EO), sulphated, sodium salts		No data available			
Triethanolamine dodecylbenzenesulfonate		No data available			
methanol		No data available			
3(2H)-Isothiazolone, 2-octyl-		No data available			
2-methyl-2H-isothiazol-3-one	EC 20	2.8	Activated sludge	OECD 209	3 hour(s)

# Aquatic long-term toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
C12-14 alcohols, ethoxylated (7EO)	EC 50	10-100	Not specified	Method not given	96 hour(s)	
sodium alkylbenzenesulphonate	NOEC	0.23	Oncorhynchus mykiss	Method not given	72 day(s)	
Alcohols C12-14, ethoxylated (3EO), sulphated, sodium salts		No data available				
Triethanolamine dodecylbenzenesulfonate		No data available				

methanol	No data available		
3(2H)-Isothiazolone, 2-octyl-	No data available		
2-methyl-2H-isothiazol-3-one	No data available		

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
C12-14 alcohols, ethoxylated (7EO)	EC 50	10-100	Not specified	Method not given	48 hour(s)	
sodium alkylbenzenesulphonate	NOEC	1.41	Daphnia magna	OECD 211		
Alcohols C12-14, ethoxylated (3EO), sulphated, sodium salts		No data available				
Triethanolamine dodecylbenzenesulfonate		No data available				
methanol		No data available				
3(2H)-Isothiazolone, 2-octyl-		No data available				
2-methyl-2H-isothiazol-3-one		No data available				

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
C12-14 alcohols, ethoxylated (7EO)		No data available				
sodium alkylbenzenesulphonate		No data available				
Alcohols C12-14, ethoxylated (3EO), sulphated, sodium salts		No data available				
Triethanolamine dodecylbenzenesulfonate		No data available				
methanol		No data available				
3(2H)-Isothiazolone, 2-octyl-		No data available				
2-methyl-2H-isothiazol-3-one		No data available				

#### **Terrestrial toxicity**

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

Terrestrial toxicity - plants, if available:

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - soil bacteria, if available:

# 12.2 Persistence and degradability

Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

#### Biodegradation

ady biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT 50	Method	Evaluation
C12-14 alcohols, ethoxylated (7EO)		CO <sub>2</sub> production	> 60 % in 28 day(s)	OECD 301B	Readily biodegradable
sodium alkylbenzenesulphonate	Activated sludge, aerobe	CO <sub>2</sub> production	85 % in 28 day(s)	OECD 301B	Readily biodegradable
Alcohols C12-14, ethoxylated (3EO), sulphated, sodium salts		CO <sub>2</sub> production	77-79% in 28 day(s)	OECD 301D	Readily biodegradable
Triethanolamine dodecylbenzenesulfonate	Activated sludge,		69%	OECD 301B	Readily biodegradable

	aerobe			
methanol			OECD 301B	Readily biodegradable
3(2H)-Isothiazolone, 2-octyl-			Weight of	Not readily biodegradable.
			evidence	
2-methyl-2H-isothiazol-3-one			Other	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

Ingredient(s)	Medium & Type	Analytical method	DT 50	Method	Evaluation
2-methyl-2H-isothiazol-3-one	Surface water (fresh)	Mineralisation rate	> 50 % in 4 day(s)	OECD 309	Biodegradable

# 12.3 Bioaccumulative potential

Ingredient(s)	Value	Method	Evaluation	Remark
C12-14 alcohols, ethoxylated (7EO)	No data available		No bioaccumulation expected	
sodium alkylbenzenesulphonate	3.32	Method not given	Low potential for bioaccumulation	
Alcohols C12-14, ethoxylated (3EO), sulphated, sodium salts	No data available			
Triethanolamine dodecylbenzenesulfonate	No data available			
methanol	No data available			
3(2H)-Isothiazolone, 2-octyl-	No data available			
2-methyl-2H-isothiazol-3-one	-0.32	OECD 107	No bioaccumulation expected	

Ingredient(s)	Value	Species	Method	Evaluation	Remark
C12-14 alcohols, ethoxylated (7EO)	No data available				
sodium alkylbenzenesulphonat e	2-1000		Method not given	High potential for bioaccumulation	
Alcohols C12-14, ethoxylated (3EO), sulphated, sodium salts	No data available				
Triethanolamine dodecylbenzenesulfona te	No data available				
methanol	No data available				
3(2H)-Isothiazolone, 2-octyl-	No data available				
2-methyl-2H-isothiazol- 3-one	3.16		OECD 305		

12.4 Mobility in soil
Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation
C12-14 alcohols, ethoxylated (7EO)	No data available	≥ 4			Potential for adsorption to soil
sodium alkylbenzenesulphonate	No data available				
Alcohols C12-14, ethoxylated (3EO), sulphated, sodium salts	No data available				
Triethanolamine dodecylbenzenesulfonate	No data available				
methanol	No data available				
3(2H)-Isothiazolone, 2-octyl-	No data available				
2-methyl-2H-isothiazol-3-one	No data available				

**12.5 Results of PBT and vPvB assessment** Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

**12.6 Endocrine disrupting properties**Endocrine disrupting properties - Environmental effects, if available:

#### 12.7 Other adverse effects

No other adverse effects known.

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

The concentrated contents or contaminated packaging should be disposed of by a certified handler Waste from residues / unused products:

or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging

material is suitable for energy recovery or recycling in line with local legislation.

**European Waste Catalogue:** 20 01 29\* - detergents containing dangerous substances.

**Empty packaging** 

Dispose of observing national or local regulations. Recommendation:

Suitable cleaning agents: Water, if necessary with cleaning agent.

#### **SECTION 14: Transport information**

# Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID number: Non-dangerous goods 14.2 UN proper shipping name: Non-dangerous goods

14.3 Transport hazard class(es): Non-dangerous goods 14.4 Packing group: Non-dangerous goods

14.5 Environmental hazards: Non-dangerous goods

14.6 Special precautions for user: Non-dangerous goods

14.7 Maritime transport in bulk according to IMO instruments: Non-dangerous goods

### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations:

- Regulation (EC) 1907/2006 REACH (UK amended)
- Regulation (EC) 1272/2008 CLP (UK amended)
- Regulation (EC) 648/2004 Detergents regulation (UK amended)
- Delegated Regulation (EU) 2017/2100 and Regulation (EU) 2018/605 (UK amended)
- Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
- International Maritime Dangerous Goods (IMDG) Code

Authorisations or restrictions (Regulation (EC) No 1907/2006, Title VII respectively Title VIII): Not applicable.

#### Ingredients according to Detergents Regulation

5 - 15 % anionic surfactants non-ionic surfactants, soap, polycarboxylates < 5 % perfumes ,Limonene, Citronellol, optical brighteners, Methylisothiazolinone, enzymes,

Octylisothiazolinone

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) 648/2004 on detergents (UK amended). Data to support this assertion are held at the disposal of the competent authorities of the UK and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Comah - classification: Not classified

### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out on the mixture

#### SECTION 16: Other information

The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract

SDS code: MSDS5812 Version: 16.3 Revision: 2024-08-08

#### Reason for revision:

This data sheet contains changes from the previous version in section(s):, 3, 8, 9, 16

#### Classification procedure

The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

#### Abbreviations and acronyms:

- AISE The international Association for Soaps, Detergents and Maintenance Products
- ATE Acute Toxicity Estimate
- DNEL Derived No Effect Limit
- $\bullet$  EC50 effective concentration, 50%

- ERC Environmental release categories
   EUH CLP Specific hazard statement
   LC50 Lethal Concentration, 50% / Median Lethal Concentration
- LCS Life cycle stage
   LD50 Lethal Dose, 50% / Median Lethal dose
- NOAEL No observed adverse effect level
- NOEL No observed effect level
- OECD Organisation for Economic Cooperation and Development
  PBT Persistent, Bioaccumulative and Toxic
  PNEC Predicted No Effect Concentration
  PROC Process categories

- REACH number REACH registration number, without supplier specific part
- vPvB very Persistent and very Bioaccumulative
   H225 Highly flammable liquid and vapour.
- H301 Toxic if swallowed.

- H302 Harmful if swallowed.
  H311 Toxic in contact with skin.
  H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H330 Fatal if inhaled. H331 Toxic if inhaled.

- H370 Causes damage to organs.
  H400 Very toxic to aquatic life.
  H410 Very toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.
- EUH071 Corrosive to the respiratory tract.

**End of Safety Data Sheet**